

group consisting of: IMT-2000, 3GPP, 3GPP2, W-CDMA, UMTS/FDD, UMTS/TDD, 1xEV-DO, 1xEV-DV, CDMA2000, IS95, IS95A, IS95B, UWB, TD-SCDMA, LAS-CDMA, IEEE802.11, IEEE802.11A, IEEE802.11B, and IEEE802.16.

### **REMARKS**

The specification has been amended to include headings in accordance with US practice.

The Abstract of the Disclosure has been amended to eliminate reference numbers and to comply with MPEP 608.01(b).

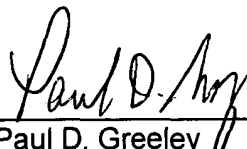
The claims have been amended to removed all multiply dependencies therefrom and to place them into proper U.S. format.

Consideration and allowance of application is respectfully requested.

Attached hereto is a marked up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version With Markings to Show Changes Made."

Respectfully submitted,

6-23-03  
Date

  
\_\_\_\_\_  
Paul D. Greeley  
Attorney for Applicant(s)  
Registration No. 31,019  
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.  
One Landmark Square, 10<sup>th</sup> Floor  
Stamford, CT 06901-2682  
(203) 327-4500

## **VERSION WITH MARKINGS TO SHOW CHANGES MADE**

### **In The Specification**

Please amend the specification as follows:

On page 1, line 11, delete in its entirety and insert therefore --- **Discussion of the Background Art** ---.

On page 1, line 28, delete in its entirety.

On page 4, line 4, delete in its entirety and insert therefore --- **BRIEF DESCRIPTION OF THE DRAWINGS** ---.

On page 4, line 14, delete in its entirety and insert therefore --- **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT** ---.

### **In The Abstract**

Please amend the abstract as follows:

#### **ABSTRACT OF THE DISCLOSURE**

~~METHOD AND DEVICE FOR INTERPRETING OF TRANSPORT FORMAT  
COMBINATION INDICATORS~~

~~The present invention is related to a A communication device comprising a physical layer ~~(L1)~~ and two or more higher layers ~~(L2/L3)~~, said the physical layer comprising means to acquire a data modulated waveform signal ~~(3)~~, comprising at least one data block and an indicator of the format of said the data~~

block, means to process ~~said~~the block and indicator, in order to be able to map the received block onto a number of transport channels ~~(24,25)~~ in the higher layers, characterized in that ~~said~~the physical layer ~~(L1)~~ comprises :

- a shared memory block ~~(30)~~, wherein lookup tables ~~(35,38)~~ for transport formats ~~(40)~~ and transport format indicators ~~(37)~~ can be saved, allowing the physical layer ~~(L1)~~ to identify transport formats for one or more transport channels,
- a connection ~~(32)~~ between the physical layer ~~(L1)~~ and the higher layers which allows ~~said~~the lookup tables to be loaded into ~~said~~the shared memory block ~~(30)~~ from the higher layers, and
- a finite state machine ~~(34)~~, capable of acquiring the transport format from the shared memory block ~~(30)~~.

~~(Figure 3)~~

### **In The Claims**

Please amend the claims as follows:

1. (Amended) A communication device comprising a physical layer ~~(L1)~~ and two or more higher layers ~~(L2/L3)~~, said physical layer comprising means to acquire a data modulated waveform signal ~~(3)~~, comprising at least one data block and an indicator of the format of said data block, means to process said block and indicator, in order to be able to map the received block onto a number of transport channels ~~(24,25)~~ in the higher layers, characterized in that said physical layer ~~(L1)~~ comprises:

- a shared memory block ~~(30)~~, wherein lookup tables ~~(35,38)~~ for transport formats ~~(40)~~ and transport format indicators ~~(37)~~ can be saved, allowing the physical layer ~~(L1)~~ to identify transport formats for one or more transport channels,

- a connection-(32) between the physical layer-(L1) and the higher layers which allows said lookup tables to be loaded into said shared memory block-(30) from the higher layers, and
- a finite state machine-(34), capable of acquiring the transport format from the shared memory block-(30).

2. (Amended) The device of claim 1, wherein said higher layers consist of a data link layer-(L2) and a network layer-(L3).

3. (Amended) The device of claim 1-~~or~~ 2, wherein said physical layer-(L1) is implemented in hardware.

4. (Amended) The device of claim 3, wherein said physical layer-(L1) comprises an inner modem-(1) and an outer modem-(2), and wherein said shared memory block-(30) and said finite state machine are part or said outer modem-(2).

5. (Amended) The device of claim 1, realized as or as part of a  
An integrated circuit which comprises a communication device comprising a physical layer and two or more higher layers, said physical layer comprising means to acquire a data modulated waveform signal, comprising at least one data block and an indicator of the format of said data block, means to process said block and indicator, in order to be able to map the received block onto a number of transport channels in the higher layers, characterized in that said physical layer comprises:

- a shared memory block, wherein lookup tables for transport formats and transport format indicators can be saved, allowing the physical layer to identify transport formats for one or more transport channels,
- a connection between the physical layer and the higher layers which allows said lookup tables to be loaded into said shared memory block from the higher layers, and

5.- a finite state machine, capable of acquiring the transport format from the shared memory block.

6. (Amended) A method of processing a data modulated waveform signal-(3), comprising the steps of

- Receiving by a receiving device, a data modulated waveform signal-(3), comprising at least one data block and at least one indicator of the format of said data block, said receiving device comprising a physical layer-(L1), and a number of higher layers-(L2/L3),
- transferring said data block over a physical data channel-(20), while transferring said indicator over a physical control channel-(21),
- decoding and demultiplexing said data block, in order to map said data block onto at least one transport channel-(24,25),
- decoding said indicator of the format of said data block, resulting into one code (36) for the format of said data block,
- looking up in a first table-(35), an indicator-(37) to the format for each transport channel which corresponds to the code-(36) for the format of said data block, said first table being present in a shared memory block-(30), which is implemented in said physical layer-(L1),
- looking up in a second table-(38), all transport formats-(40), which correspond to said indicator-(37) to the format for each transport channel, said second table being present in said shared memory block-(30), which is implemented in said physical layer-(L1), and
- mapping said data block onto said at least one transfer channel-(24,25), in the correct transport format.

7. (Amended) The method of claim 6, in which said data modulated waveform is used in at least onefor one of the following applications selected from the group consisting of: IMT-2000, 3GPP, 3GGP2, W-CDMA, UMTS/FDD, UMTS/TDD, 1xEV-DO, 1xEV-DV, CDMA2000, IS95, IS95A, IS95B, UWB, TD-SCDMA, LAS-CDMA, IEEE802.11, IEEE802.11A, IEEE802.11B, and IEEE802.16.